ELSEVIER

Environmental and Experimental Botany 37 (1997) 213

Environmental and Experimental Botany

Author Index, Volume 37

Ball, J.T. 73
Barnard, J. 63
Bennett, J.P. 173
Blair, L.M. 25
Branquinho, C. 95
Brown, D.H. 95

Castagna, A. 125
Catarino, F. 95
Chettri, M.K. 39
Colman, B. 153

Davey, M.C. 187
Deckmyn, G. 3
DeLaune, R.D. 161
Denning, S.S. 63
Dimitrov, B. 199

Gadeva, P. 199
Guo, C. 147

Harte, J.E. 115

Impens, I. 3

Johnson, M.G. 73

Lakso, A.N. 63
Lee, E.H. 85
Loik, M.E. 115
Lorenzini, G. 125

Máguas, C. 95
Meeder, J.F. 161
Mulchi, C.L. 85

Nalewajko, C. 153

Olaveson, M. 153
Oosterhuis, D.M. 147

Pausch, R.C. 85
Pezeshki, S.R. 161
Phillips, D.L. 73

Quebedeaux, B. 13

Rakonczay, Z. 107
Ranieri, A. 125
Reddy, V.R. 13
Rowland, R.A. 85
Rudorff, B.F.T. 85

Samuelson, L.J. 107
Sawidis, T. 39
Seiler, J.R. 107
Severi, A. 53
Sheppard, L.J. 137
Soldatini, G.F. 125
Storm, M.J. 73
Stratis, J.A. 39

Taylor, G.J. 25
Tingey, D.T. 73

Wang, Z. 13
Wetmore, C.M. 173
Wünsche, J.N. 63

Zachariadis, G. A. 39

ELSEVIER

Environmental and Experimental Botany 37 (1997) 215

Environmental and Experimental Botany

Subject Index, Volume 37

Acer rubrum
A method for the in situ measurement of fine root gas exchange of forest trees 107
Air pollution
Chemical element concentrations in four lichens on a transect entering Voyageurs National Park 173
Aluminium
Aluminium toxicity in *Lemna minor* L.: effects of citrate and kinetin 53
The nature of interaction between aluminum and manganese on growth and metal accumulation in *Triticum aestivum* 25
Antarctica
Effects of short-term dehydration and rehydration on photosynthesis and respiration by Antarctic bryophytes 187
Antioxidants
Changes in thylakoid protein patterns and antioxidant levels in two wheat cultivars with different sensitivity to sulfur dioxide 125
Artemisia tridentata (Asteraceae)
Changes in water relations for leaves exposed to a climate-warming manipulation in the Rocky Mountains of Colorado 115

Biomass partitioning
Growth and photosynthetic responses of soybean to short-term cold temperature 13
Bryophytes
Effects of short-term dehydration and rehydration on photosynthesis and respiration by Antarctic bryophytes 187

Carbon fixation
Effects of short-term dehydration and rehydration on photosynthesis and respiration by Antarctic bryophytes 187
Chromosomal aberrations
Genotoxicity studies on the insecticide dursban in root meristem cells of *Crepis capillaris* L. 199
Citrate
Aluminium toxicity in *Lemna minor* L.: effects of citrate and kinetin 53
Cladoniaa rangiformis
Uptake of heavy metals by living and dead *Cladonia* thalli 39
Cladoniaa convoluta
Uptake of heavy metals by living and dead *Cladonia* thalli 39
Climate change
Changes in water relations for leaves exposed to a climate-warming manipulation in the Rocky Mountains of Colorado 115
Responses of field-grown soybean (cv. Essex) to elevated SO_2 under two atmospheric CO_2 concentrations 85
CO_2
Effects of elevated CO_2 and N fertilization on fine root dynamics and fungal growth in seedling *Pinus ponderosa* 73
Responses of field-grown soybean (cv. Essex) to elevated SO_2 under two atmospheric CO_2 concentrations 85
CO_2 compensation points
Effects of pH on growth, photosynthesis, respiration, and copper tolerance of three *Scenedesmus* strains 153
Copper
Uptake of heavy metals by living and dead *Cladonia* thalli 39
Copper toxicity
Effects of pH on growth, photosynthesis, respiration, and copper tolerance of three *Scenedesmus* strains 153
Crop efficiency
Estimating the contribution of canopy components to direct light interception of apple trees using a laser-assisted scanning device 63

Desiccation tolerance
Effects of short-term dehydration and rehydration on photosynthesis and respiration by Antarctic bryophytes 187

Dursban
Genotoxicity studies on the insecticide dursban in root meristem cells of *Crepis capillaris L.* 199

Electrolyte leakage
Soil dressing with sulphur: does it reduce frost hardiness in spruce seedlings? 137
Extracellular metals
Lead (Pb) uptake and its effects on membrane integrity and chlorophyll fluorescence in different lichen species 95

Fine root growth
Effects of elevated CO_2 and N fertilization on fine root dynamics and fungal growth in seedling *Pinus ponderosa* 73
Flood tolerance
Carbon assimilation and biomass partitioning in *Avicennia* germinans and *Rhizophora mangle* seedlings in response to soil redox conditions 161
Foliar uptake of SO_4^{2-}
Soil dressing with sulphur: does it reduce frost hardiness in spruce seedlings? 137

Genotoxicity
Genotoxicity studies on the insecticide dursban in root meristem cells of *Crepis capillaris* L. 199
Genotypes
Effect of water-deficit stress and genotypes on pinitol occurrence in soybean plants 147
Growth
Effects of pH on growth, photosynthesis, respiration, and copper tolerance of three *Scenedesmus* strains 153
The ratio UV-B/photosynthetically active radiation (PAR) determines the sensitivity of rye to increased UV-B radiation 3

Heavy metals
Uptake of heavy metals by living and dead *Cladonia* thalli 39
Chemical element concentrations in four lichens on a transect entering Voyageurs National Park 173
Hypogymnia physodes
Chemical element concentrations in four lichens on a transect entering Voyageurs National Park 173

Insecticide
Genotoxicity studies on the insecticide dursban in root meristem cells of *Crepis capillaris* L. 199
Intracellular metals
Lead (Pb) uptake and its effects on membrane integrity and chlorophyll fluorescence in different lichen species 95

Kinetin
Aluminium toxicity in *Lemna minor* L.: effects of citrate and kinetin 53

Lead
Uptake of heavy metals by living and dead *Cladonia* thalli 39
Lead (Pb) uptake and its effects on membrane integrity and chlorophyll fluorescence in different lichen species 95
Lemna minor
Aluminium toxicity in *Lemna minor* L.: effects of citrate and kinetin 53
Lichen
Chemical element concentrations in four lichens on a transect entering Voyageurs National Park 173
Lead (Pb) uptake and its effects on membrane integrity and chlorophyll fluorescence in different lichen species 95
Light utilization
Estimating the contribution of canopy components to direct light interception of apple trees using a laser-assisted scanning device 63
Lipid peroxidation
Aluminium toxicity in *Lemna minor* L.: effects of citrate and kinetin 53

Magnesium
Lead (Pb) uptake and its effects on membrane integrity and chlorophyll fluorescence in different lichen species 95
Malus domestica
Estimating the contribution of canopy components to direct light interception of apple trees using a laser-assisted scanning device 63
Manganese
The nature of interaction between aluminum and manganese on growth and metal accumulation in Triticum aestivum 25
Mangroves
Carbon assimilation and biomass partitioning in *Avicennia germinans* and *Rhizophora mangle* seedlings in response to soil redox conditions 161
Micronuclei
Genotoxicity studies on the insecticide dursban in root meristem cells of *Crepis capillaris* L. 199
Minirhizotron
Effects of elevated CO_2 and N fertilization on fine root dynamics and fungal growth in seedling *Pinus ponderosa* 73

Multiplicative
The nature of interaction between aluminum and manganese on growth and metal accumulation in *Triticum aestivum* 25

N fertilization
Effects of elevated CO_2 and N fertilization on fine root dynamics and fungal growth in seedling *Pinus ponderosa* 73

Peroxidase activity
Aluminium toxicity in *Lemna minor* L.: effects of citrate and kinetin 53

pH
Effects of pH on growth, photosynthesis, respiration, and copper tolerance of three *Scenedesmus* strains 153

Photosynthesis
Carbon assimilation and biomass partitioning in *Avicennia germinans* and *Rhizophora mangle* seedlings in response to soil redox conditions 161
Effects of pH on growth, photosynthesis, respiration, and copper tolerance of three *Scenedesmus* strains 153
Growth and photosynthetic responses of soybean to short-term cold temperature 13
Responses of field-grown soybean (cv. Essex) to elevated SO_2 under two atmospheric CO_2 concentrations 85
The ratio UV-B/photosynthetically active radiation (PAR) determines the sensitivity of rye to increased UV-B radiation 3

Pinitol occurrences
Effect of water-deficit stress and genotypes on pinitol occurrence in soybean plants 147

Pinus ponderosa
Effects of elevated CO_2 and N fertilization on fine root dynamics and fungal growth in seedling *Pinus ponderosa* 73

Plant growth
Responses of field-grown soybean (cv. Essex) to elevated SO_2 under two atmospheric CO_2 concentrations 85

Point quadrat method
Estimating the contribution of canopy components to direct light interception of apple trees using a laser-assisted scanning device 63

Potassium
Lead (Pb) uptake and its effects on membrane integrity and chlorophyll fluorescence in different lichen species 95

Potentilla gracilis (Rosaceae)
Changes in water relations for leaves exposed to a climate-warming manipulation in the Rocky Mountains of Colorado 115

Prunus serotina
A method for the in situ measurement of fine root gas exchange of forest trees 107

Quercus rubra
A method for the in situ measurement of fine root gas exchange of forest trees 107

Redox potential
Carbon assimilation and biomass partitioning in *Avicennia germinans* and *Rhizophora mangle* seedlings in response to soil redox conditions 161

Relative water content
Changes in water relations for leaves exposed to a climate-warming manipulation in the Rocky Mountains of Colorado 115

Root uptake of SO_4^{2-}
Soil dressing with sulphur: does it reduce frost hardiness in spruce seedlings? 137

Root respiration
A method for the in situ measurement of fine root gas exchange of forest trees 107

Rye
The ratio UV-B/photosynthetically active radiation (PAR) determines the sensitivity of rye to increased UV-B radiation 3

Sagebrush
Changes in water relations for leaves exposed to a climate-warming manipulation in the Rocky Mountains of Colorado 115

Scenedesmus
Effects of pH on growth, photosynthesis, respiration, and copper tolerance of three *Scenedesmus* strains 153

Secale cereale L.
The ratio UV-B/photosynthetically active radiation (PAR) determines the sensitivity of rye to increased UV-B radiation 3

SO_2
Changes in thylakoid protein patterns and antioxidant levels in two wheat cultivars with different sensitivity to sulfur dioxide 125
Responses of field-grown soybean (cv. Essex) to elevated SO_2 under two atmospheric CO_2 concentrations 85

Soybean
Growth and photosynthetic responses of soybean to short-term cold temperature 13

Soybean plants
Effect of water-deficit stress and genotypes on pinitol occurrence in soybean plants 147

Soybean *(Glycine max L.)*
Responses of field-grown soybean (cv. Essex) to elevated SO_2 under two atmospheric CO_2 concentrations 85

Stomatal conductance
Carbon assimilation and biomass partitioning in *Avicennia germinans* and *Rhizophora mangle* seedlings in response to soil redox conditions 161

Temperature
Growth and photosynthetic responses of soybean to short-term cold temperature 13

Thylakoid proteins
Changes in thylakoid protein patterns and antioxidant levels in two wheat cultivars with different sensitivity to sulfur dioxide 125

Time response
A method for the in situ measurement of fine root gas exchange of forest trees 107

Triticum aestivum
Changes in thylakoid protein patterns and antioxidant levels in two wheat cultivars with different sensitivity to sulfur dioxide 125

UV-B/PAR ratio
The ratio UV-B/photosynthetically active radiation (PAR) determines the sensitivity of rye to increased UV-B radiation 3

Water availability
Effects of short-term dehydration and rehydration on photosynthesis and respiration by Antarctic bryophytes 187

Water potential
Changes in water relations for leaves exposed to a climate-warming manipulation in the Rocky Mountains of Colorado 115

Water-deficit stress
Effect of water-deficit stress and genotypes on pinitol occurrence in soybean plants 147

Weibull analysis
The nature of interaction between aluminum and manganese on growth and metal accumulation in *Triticum aestivum* 25

Wheat
Changes in thylakoid protein patterns and antioxidant levds in two wheat cultivars with different sensitivity to sulfur dioxide 125

Zinc
Uptake of heavy metals by living and dead *Cladonia* thalli 39